ABSTRACT

A polyurethane elastic fiber, containing inorganic compound particles that have an average particle size of 0.5 to 5 mm and that show a refractive index of 1.4 to 1.6, having at least one protruded portion that has a maximum width of 0.5 to 5 μ m, in the fiber surface, per 120- μ m length in the fiber axis direction.

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- 7. **(Original)** A process for producing a polyurethane elastic fiber, which comprises finely dispersing inorganic compound particles having an average particle size of 0.5 to 5 μ m and showing a refractive index of 1.4 to 1.6 in an amide-type polar solvent, and dry spinning a polyurethane spinning dope containing from 0.05 to 10% by weight, based on the polyurethane, of the inorganic compound particles.
- 8. **(New)** The polyurethane elastic fiber according to claim 2, wherein the inorganic compound particles are porous silica having a specific surface area of 100 to 800 m2/g.
- 9. **(New)** The polyurethane elastic fiber according to claim 8, wherein the coefficient of dynamic friction thereof against a knitting needle is from 0.2 to 0.6.
- 10. **(New)** The polyurethane elastic fiber according to claim 9, wherein the coefficient of static friction thereof against the polyurethane elastic fiber is from 0.3 to 0.6.
- 11. **(New)** The polyurethane elastic fiber according to claim 10, wherein the change with time (after allowing the polyurethane elastic fiber to stand for 16 hours at 70°C) in the coefficient of static friction thereof against a nylon yarn is 0.1 or less.